

IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~strikethrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

1. (CURRENTLY AMENDED) A multi-physics analysis method for simulating an object model with a plurality of physical simulation models, comprising:

~~a step for~~ setting the physical simulation models ~~of the~~ for element groups constituting said object model;

~~a step for~~ searching boundaries of said object model corresponding to said set element group;

~~a step for~~ reflecting the physical simulation models of said element groups in the boundaries searched on a screen for setting analysis conditions for the boundaries of said object model;

~~a step for~~ setting the analysis conditions ~~of~~ for said boundaries on a ~~the~~ screen for setting analysis conditions of said reflected boundaries; and

~~a step for~~ analyzing said object model with said set physical simulation models and analysis conditions,

wherein said setting the physical simulation models comprises setting the physical simulation models of said element groups on an element group set list screen displayed in common on said screen for setting analysis conditions of said boundaries.

2. (CANCELED)

3. (CURRENTLY AMENDED) The multi-physics analysis method, according to Claim 1, further comprising ~~a step for~~ displaying the form of said object model in common ~~on the same screen as said element group set list screen for setting analysis conditions.~~

4. (CURRENTLY AMENDED) The multi-physics analysis method, according to Claim 1, wherein said ~~step for~~ setting the physical simulation models ~~element groups~~ comprises ~~a step for setting the physical simulation model for~~ said element groups on a said element group set list screen ~~for setting analysis conditions~~ comprising a two-dimensional list of said element groups and said physical simulation models.

5. (CURRENTLY AMENDED) The multi-physics analysis method, according to Claim 1, wherein said reflecting ~~step~~ comprises ~~a step for~~ reflecting the physical simulation models of said element groups on the screen for setting the analysis conditions of the boundaries comprising a two-dimensional list of said boundaries and said physical simulation models.

6. (CURRENTLY AMENDED) The multi-physics analysis method, according to Claim 1, further comprising ~~a step for~~ generating a correspondence list showing ~~the correlation a~~ relationship between the element groups and the boundaries from the element group and boundary data of said object model.

7. (CURRENTLY AMENDED) The multi-physics analysis method, according to Claim 1, further comprising ~~a step for~~ generating boundary data belonging to two or fewer element groups from the element group and boundary data of said object model.

8. (CURRENTLY AMENDED) A method for setting analysis conditions for multi-physics analysis for simulating an object model and a plurality of physical simulation models, comprising:

~~a step for~~ setting the physical simulation models ~~of the~~ for element groups constituting said object model;

~~a step for~~ searching the boundaries of said object model corresponding to said set element groups;

~~a step for~~ reflecting the physical simulation models of said element groups in the boundaries ~~found~~ searched on a screen for setting analysis conditions for the boundaries of said

object model; and

~~a step for setting the analysis conditions of said boundaries on a screen for setting analysis conditions of said reflected boundaries,~~

wherein said setting the physical simulation models comprises setting the physical simulation models for said element groups on an element group set list screen displayed in common on said screen for setting analysis conditions of said boundaries.

9. (CANCELED)

10. (CURRENTLY AMENDED) The method for setting analysis conditions for multi-physics analysis; according to Claim 8, further comprising ~~a step for displaying the form of said object model commonly on the same screen as said element group set list screenscreens for setting analysis conditions.~~

11. (CURRENTLY AMENDED) The method for setting analysis conditions for multi-physics analysis; according to Claim 8,

wherein said ~~step for~~ setting the physical simulation models ~~element groups~~ comprises a ~~step for setting the physical simulation model for said element groups on a said element group set list screen for setting analysis conditions~~ comprising a two-dimensional list of said element groups and said physical simulation models.

12. (CURRENTLY AMENDED) The method for setting analysis conditions for multi-physics analysis; according to Claim 8,

wherein said reflecting ~~step~~ comprises ~~a step for~~ reflecting the physical simulation models of said element groups on the screen for setting the analysis conditions of the boundaries comprising a two-dimensional list of said boundaries and said physical simulation models.

13. (CURRENTLY AMENDED) The method for setting analysis conditions for multi-physics analysis; according to Claim 8, further comprising ~~a step for generating a correspondence~~ corresponding list showing ~~the correlation~~ a relationship between the element groups and the boundaries from the element group and boundary data of said object model.

14. (CURRENTLY AMENDED) The method for setting analysis conditions for multi-physics analysis; according to Claim 8, further comprising ~~a step for generating~~ boundary data belonging to two or fewer element groups from the element group and boundary data of said object model.

15. (CURRENTLY AMENDED) A storage medium for storing ~~programs~~ computer-readable and executable instructions which control the computer to perform a process for setting analysis conditions for multi-physics analysis for simulating an object model with a plurality of physical simulation models when executed in the computer, wherein the following are stored by:

~~a program for setting the physical~~ simulation models of thefor element groups constituting said object model;

~~a program for finding the~~searching boundaries of said object model corresponding to said set element groups;

~~a program for reflecting the physical~~ simulation models of said element groups in the boundaries found ~~searched~~ on a screen for setting analysis conditions for the boundaries of said object model; and

~~a program for setting the analysis conditions of said boundaries on a screen for setting analysis conditions of said reflected boundaries,~~

wherein said setting of the physical simulation models comprises setting the physical simulation models for said element groups on an element group set list screen that is displayed in common on said screen for setting analysis conditions of said boundaries.

16. (NEW) A method for setting analysis conditions for multi-physics analysis for simulating an object model with a plurality of physical simulation models, comprising:

setting the physical simulation models for element groups constituting said object model;
searching boundaries of said object model corresponding to said set element groups;
reflecting the physical simulation models of said element groups in the boundaries searched on a screen for setting analysis conditions for the boundaries of said object model; and
setting the analysis conditions of said boundaries on a screen for setting analysis conditions of said reflected boundaries,

wherein said setting of the physical simulation models comprises setting the physical simulation models for said element groups on an element group set list screen displayed in common on said screen for setting analysis conditions of said boundaries.